

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new Traffic Control Signal with interconnect at the intersection of MD 378 (Baltimore Avenue) approach running alone. The pedestrian phase across the south leg of MD 378 (Baltimore Avenue) shall be on recall. The 8th Street approaches shall run concurrently.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA three-phase, fixed-time mode, with the northbound MD 378 (Baltimore Avenue) approach running alone. The pedestrian phase across the south leg of MD 378 (Baltimore Avenue) shall be on recall. The 8th Street approaches shall run concurrently.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9043	Controller cabinet, size "5"	1 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	38 SF
	D3-2 "Baltimore AVE " sign, (variable x 16") mast arm mounted.	2 EA
	D3-2 "8TH Street " sign, (variable x 16") mast arm mounted.	1 EA
	R3-2 "No Left Turn (Symbolic)" sign, (30" x30") mast arm mounted.	1 EA
	R3-1 "No Right Turn (Symbolic)" sign, (30" x30") mast arm mounted.	1 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2001	Class 2 Excavation, (for sidewalk removal)	2 C.Y.
2002	Test Pit Excavation	1 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	70 L.F.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	75 L.F.
5008	Remove existing pavement markings - any width.	70 L.F.
6004	4" concrete sidewalk.	200 S.F.
8006	Cut, clean, galvanize and cap traffic signal structure.	2 EA

EQUIPMENT LIST (CONT)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
8010	Furnish and install 12" pedestrian signal head section	8 EA
8011	Furnish and install 12" vehicular traffic signal head section	18 EA
8015	Furnish and install 3" weatherhead.	1 EA
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8023	Furnish and install 27' mast arm pole and 60' (cut to 55') mast arm.	1 EA
8048	Remove and dispose of existing material and equipment per assignment.	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	20 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	20 L.F.
8054	Furnish and install 12-pair communication cable, self-supporting (overhead).	380 L.F.
8057	Furnish and install concrete for signal foundation.	5 C.Y.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	120 L.F.
8067	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - slotted.	50 L.F.
8072	Furnish and install electrical handhole.	2 EA
8075	Install overhead sign.	38 S.F.
8080	Furnish and install ground rod - 3/4" x 10'.	3 EA
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	265 L.F.
8085	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	255 L.F.
8092	Install controller and cabinet pole mount.	1 EA
Neg.	Pull back and reroute 12-pair interconnect cable	60 L.F.
Neg.	Pedestrian education R10-4 (1) sign. (Top portion to be left blank).	2 EA
Neg.	Furnish and install 3" electrical conduit - polyvinyl chloride riser.	20 L.F.

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

The contact persons for District #1 are as follows:

Mr. Gene Cofelli
Assistant District Engineer - Traffic
Phone: (410) 677-4040

Mr. Jimmy Wright
Assistant District Engineer - Maintenance
Phone: (410) 543-6715

Mr. Bruce Poole
Assistant District Engineer - Utility
Phone: (410) 677-4082

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Electrical Service Representative:

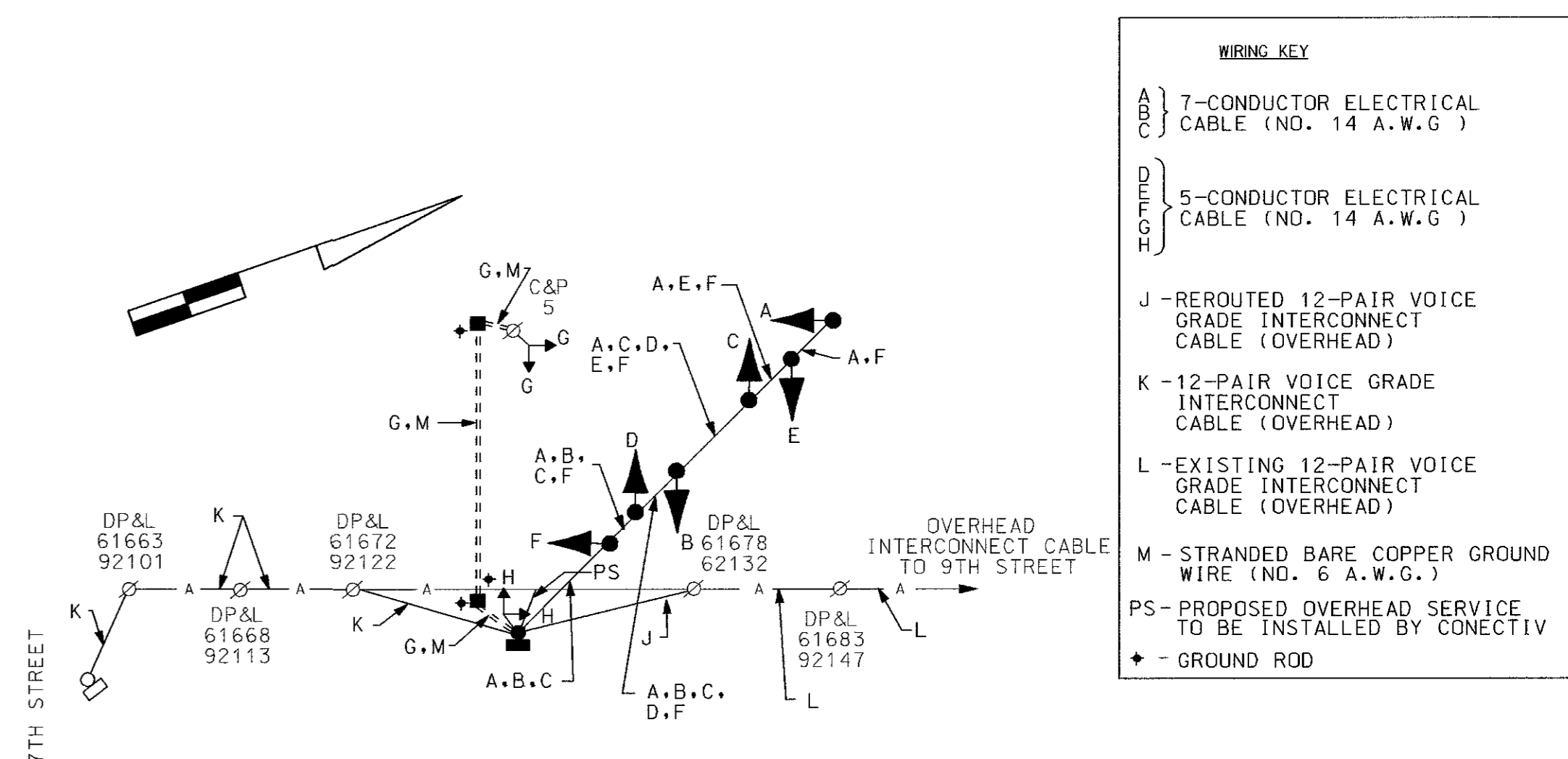
CONNECTIV
2530 N. Salisbury Blvd.
Salisbury Maryland 21802

ATTN: Mr. Rodney Bain
(410) 860-6242

PHASE CHART

	1	2	3	4	5	6	7	8	9	10
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(DW) (DW) (DW)	(DW) (DW) (DW)	(WK) (WK) (WK)	(WK) (WK) (WK)
PHASE 6	G	G	R	R	R	R	DW	DW	WK	WK
PED CLEARANCE	G	G	R	R	R	R	DW	DW	FL/DW	FL/DW
6 CHANGE	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	G	G	G	G	WK	WK	DW	DW
PED CLEARANCE	R	R	G	G	G	G	FL/DW	FL/DW	DW	DW
4 & 8 CHANGE	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J - REROUTED 12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
- K - 12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
- L - EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
- M - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- PS - PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY CONNECTIV
- ♦ - GROUND ROD



4237B.dgn

TASK-60



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 378 (BALTIMORE AVE) AND 8th ST.

DRAWN BY: ROB CICCHINI	F.A.P. NO. S.H.A. NO. 08501A54	TS NO. 4201	SHEET NO. 2 OF 2
CHECKED BY: RR ZACHERL	COUNTY: WORCESTER	T.J.M.S. NO. F358	
SCALE: NONE	LOG MILE: 23037800.95		
DATE: 8-20-02			